

Supplementary Table S3: Detailed statistical analysis for all panels in figure 2

Figure	Test		<i>F</i> value	DF	<i>P</i> -value
2A (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.1153	1, 14	0.7393
		Treatment	14.19	1, 14	0.0021
		Sex	0.005018	1, 14	0.9445
2A (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.0003681	1, 16	0.9849
		Treatment	0.7293	1, 16	0.4057
		Sex	0.009176	1, 16	0.9249
2A (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.122	1, 15	0.3063
		Treatment	13.88	1, 15	0.0020
		Sex	1.518	1, 15	0.2369
2A (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.22442	1, 14	0.6432
		Treatment	0.2453	1, 14	0.6281
		Sex	0.3232	1, 14	0.5787
2A (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	4.681	1, 12	0.0514
		Treatment	21.86	1, 12	0.0005
		Sex	7.841	1, 12	0.0160
2A (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.255	1, 15	0.1540
		Treatment	11.12	1, 15	0.0045
		Sex	3.872	1, 15	0.0679
2B (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	3.628	1, 15	0.0762
		Treatment	22.70	1, 15	0.0003
		Sex	3.628	1, 15	0.0762
2B (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.964	1, 15	0.1814
		Treatment	7.213	1, 15	0.0169
		Sex	0.7077	1, 15	0.4134
2B (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.179	1, 12	0.2989
		Treatment	26.12	1, 12	0.0003
		Sex	0.8393	1, 12	0.3777
2B (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.827	1, 14	0.1149
		Treatment	8.053	1, 14	0.0132
		Sex	2.861	1, 14	0.1129
2B (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.818	1, 13	0.1171
		Treatment	0.7417	1, 13	0.4047
		Sex	2.557	1, 13	0.1338
2B (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.006330	1, 15	0.9376
		Treatment	4.774	1, 15	0.0452
		Sex	0.009555	1, 15	0.9234
2C (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	11.04	1, 15	0.0046
		Treatment	6.959	1, 15	0.0186
		Sex	0.2458	1, 15	0.6272
2C (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.8880	1, 15	0.3610
		Treatment	7.893	1, 15	0.0132
		Sex	1.375	1, 15	0.2593

2C (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	3.149	1, 15	0.0963
		Treatment	8.450	1, 15	0.0108
		Sex	3.500	1, 15	0.0810
2C (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.8661	1, 14	0.3678
		Treatment	0.4501	1, 14	0.5132
		Sex	3.220	1, 14	0.0943
2C (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.153	1, 15	0.2999
		Treatment	5.213	1, 15	0.0374
		Sex	2.276	1, 15	0.1522
2C (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.06768	1, 16	0.7981
		Treatment	3.522	1, 16	0.0789
		Sex	0.3251	1, 16	0.5765
2D (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.07199	1, 16	0.7919
		Treatment	47.83	1, 16	<0.0001
		Sex	1.615	1, 16	0.2220
2D (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.740	1, 16	0.2057
		Treatment	21.06	1, 16	0.0003
		Sex	3.199	1, 16	0.0926
2D (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	4.288	1, 14	0.0573
		Treatment	11.01	1, 14	0.0051
		Sex	3.187	1, 14	0.0959
2D (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.002092	1, 15	0.9641
		Treatment	44.39	1, 15	<0.0001
		Sex	1.217	1, 15	0.2873
2D (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	5.145	1, 15	0.0385
		Treatment	37.06	1, 15	<0.0001
		Sex	1.199	1, 15	0.2907
2D (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.099	1, 15	0.1680
		Treatment	259.7	1, 15	<0.0001
		Sex	6.863	1, 15	0.0193
2E (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.593	1, 15	0.2262
		Treatment	2.969	1, 15	0.1054
		Sex	2.013	1, 15	0.1764
2E (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.395	1, 16	0.2548
		Treatment	31.66	1, 16	<0.0001
		Sex	0.9242	1, 16	0.3507
2E (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.3327	1, 15	0.5726
		Treatment	0.6512	1, 15	0.4323
		Sex	0.2263	1, 15	0.6411
2E (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.9649	1, 16	0.3406
		Treatment	25.30	1, 16	0.0001
		Sex	0.09922	1, 16	0.7568
2E (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	3.894	1, 14	0.0685
		Treatment	5.025	1, 14	0.0417
		Sex	6.379	1, 14	0.0242
2E (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.5163	1, 16	0.4828
		Treatment	0.3337	1, 16	0.5715
		Sex	1.169	1, 16	0.2956

2F (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.07125	1, 16	0.7929
		Treatment	19.77	1, 16	0.0004
		Sex	2.708	1, 16	0.1193
2F (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.492	1, 16	0.1340
		Treatment	76.75	1, 16	<0.0001
		Sex	2.854	1, 16	0.1105
2F (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.1837	1, 15	0.6743
		Treatment	13.99	1, 15	0.0020
		Sex	0.1754	1, 15	0.6813
2F (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.2584	1, 16	0.6181
		Treatment	95.15	1, 16	<0.0001
		Sex	0.2088	1, 16	0.6539
2F (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.7895	1, 15	0.3883
		Treatment	50.15	1, 15	<0.0001
		Sex	0.4695	1, 15	0.5037
2F (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	2.467	1, 15	0.1371
		Treatment	23.55	1, 15	0.0002
		Sex	0.01076	1, 15	0.9188
2G (PFC)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.6183	1, 16	0.4432
		Treatment	106.0	1, 16	<0.0001
		Sex	0.6183	1, 16	0.4432
2G (NAc)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	3.586	1, 15	0.0777
		Treatment	0.2764	1, 15	0.6067
		Sex	0.1133	1, 15	0.7411
2G (VTA)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	1.029	1, 15	0.3265
		Treatment	4.459	1, 15	0.0519
		Sex	0.9646	1, 15	0.3416
2G (HIP)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.07412	1, 16	0.7889
		Treatment	1.055	1, 16	0.3196
		Sex	3.822	1, 16	0.0683
2G (AMY)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	0.1044	1, 12	0.7521
		Treatment	0.2470	1, 12	0.6282
		Sex	0.7580	1, 12	0.4010
2G (CER)	2-Way ANOVA followed by Sidak's post-hoc	Interaction	4.746	1, 14	0.0469
		Treatment	1.145	1, 14	0.3027
		Sex	6.565	1, 14	0.0226

Multiple comparisons:

FIG. 2A (OIGly)

Sidak's multiple comparisons test

PFC

Females Ctrl vs. Females EtOH

Males Ctrl vs. Males EtOH

Summary

ns

*

Adjusted P Value

0.0581

0.0230

NAc

Females Ctrl vs. Females EtOH

ns

0.7936

Males Ctrl vs. Males EtOH	ns	0.8092
<u>VTA</u>		
Females Ctrl vs. Females EtOH	**	0.0099
Males Ctrl vs. Males EtOH	ns	0.1368
<u>HIP</u>		
Females Ctrl vs. Females EtOH	ns	0.7756
Males Ctrl vs. Males EtOH	ns	0.9998
<u>AMY</u>		
Females Ctrl vs. Females EtOH	**	0.0023
Males Ctrl vs. Males EtOH	ns	0.1063
<u>CER</u>		
Females Ctrl vs. Females EtOH	**	0.0092
Males Ctrl vs. Males EtOH	ns	0.3624

FIG. 2B (OIAIa)

Sidak`s multiple comparisons test	Summary	Adjusted P Value
<u>PFC</u>		
Females Ctrl vs. Females EtOH	ns	0.1317
Males Ctrl vs. Males EtOH	***	0.0004
<u>NAc</u>		
Females Ctrl vs. Females EtOH	ns	0.5955
Males Ctrl vs. Males EtOH	*	0.0263
<u>VTA</u>		
Females Ctrl vs. Females EtOH	*	0.0398
Males Ctrl vs. Males EtOH	**	0.0010
<u>HIP</u>		
Females Ctrl vs. Females EtOH	*	0.0129
Males Ctrl vs. Males EtOH	ns	0.6719
<u>AMY</u>		
Females Ctrl vs. Females EtOH	ns	0.1964
Males Ctrl vs. Males EtOH	ns	0.8088
<u>CER</u>		
Females Ctrl vs. Females EtOH	ns	0.2613
Males Ctrl vs. Males EtOH	ns	0.2702

FIG. 2C (2-AG)

Sidak`s multiple comparisons test	Summary	Adjusted P Value
<u>PFC</u>		
Females Ctrl vs. Females EtOH	ns	0.8738

Males Ctrl vs. Males EtOH	**	0.0012
<u>NAc</u>		
Females Ctrl vs. Females EtOH	ns	0.3900
Males Ctrl vs. Males EtOH	*	0.0305
<u>VTA</u>		
Females Ctrl vs. Females EtOH	ns	0.6959
Males Ctrl vs. Males EtOH	**	0.0077
<u>HIP</u>		
Females Ctrl vs. Females EtOH	ns	0.4765
Males Ctrl vs. Males EtOH	ns	0.9795
<u>AMY</u>		
Females Ctrl vs. Females EtOH	ns	0.0702
Males Ctrl vs. Males EtOH	ns	0.6303
<u>CER</u>		
Females Ctrl vs. Females EtOH	ns	0.2780
Males Ctrl vs. Males EtOH	ns	0.4668

FIG. 2D (AEA)

Sidak's multiple comparisons test	Summary	Adjusted P Value
<u>PFC</u>		
Females Ctrl vs. Females EtOH	***	0.0005
Males Ctrl vs. Males EtOH	***	0.0002
<u>NAc</u>		
Females Ctrl vs. Females EtOH	ns	0.0677
Males Ctrl vs. Males EtOH	**	0.0014
<u>VTA</u>		
Females Ctrl vs. Females EtOH	ns	0.6308
Males Ctrl vs. Males EtOH	**	0.0038
<u>HIP</u>		
Females Ctrl vs. Females EtOH	***	0.0004
Males Ctrl vs. Males EtOH	***	0.0008
<u>AMY</u>		
Females Ctrl vs. Females EtOH	****	<0.0001
Males Ctrl vs. Males EtOH	*	0.0276
<u>CER</u>		
Females Ctrl vs. Females EtOH	****	<0.0001
Males Ctrl vs. Males EtOH	****	<0.0001

FIG. 2E (PEA)

Sidak's multiple comparisons test	Summary	Adjusted P Value
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PFC

Females Ctrl vs. Females EtOH	ns	0.1129
Males Ctrl vs. Males EtOH	ns	0.9332

NAC

Females Ctrl vs. Females EtOH	***	0.0004
Males Ctrl vs. Males EtOH	*	0.0125

VTA

Females Ctrl vs. Females EtOH	ns	0.9847
Males Ctrl vs. Males EtOH	ns	0.5500

HIP

Females Ctrl vs. Females EtOH	**	0.0012
Males Ctrl vs. Males EtOH	*	0.0224

AMY

Females Ctrl vs. Females EtOH	*	0.0267
Males Ctrl vs. Males EtOH	ns	0.9755

CER

Females Ctrl vs. Females EtOH	ns	0.9939
Males Ctrl vs. Males EtOH	ns	0.6069

FIG. 2F (OEA)

Sidak's multiple comparisons test

PFC

Females Ctrl vs. Females EtOH	**	0.0084
Males Ctrl vs. Males EtOH	*	0.0185

NAC

Females Ctrl vs. Females EtOH	***	0.0002
Males Ctrl vs. Males EtOH	****	<0.0001

VTA

Females Ctrl vs. Females EtOH	ns	0.0745
Males Ctrl vs. Males EtOH	*	0.0165

HIP

Females Ctrl vs. Females EtOH	****	<0.0001
Males Ctrl vs. Males EtOH	****	<0.0001

AMY

Females Ctrl vs. Females EtOH	**	0.0014
Males Ctrl vs. Males EtOH	****	<0.0001

CER

Females Ctrl vs. Females EtOH	ns	0.0773
Males Ctrl vs. Males EtOH	***	0.0006